

June 15, 1993

To: Robb Casagrande  
From: Mark Litton  
RE: Engineering Inquiry

On June 8th and 12th I read the monitor points for WNRJ-AM as I do monthly. The results are below.

FCC VALUE IN CP Monitor Point Number -----	June 8th -----	June 12th -----
1 - 8.5 mv/m	6.6	6.7
2 - 2.6 mv/m	2.7*	2.6
3 - 2.9 mv/m	2.2	2.3
4 - 3.0 mv/m	2.7	2.9
5 - 5.2 mv/m	4.5	4.1

\* weather conditions probably the cause of overage.

As you can see, with the exception of the June 8th monitor point 2 reading, all readings are at or below our license values. I must note however that there is construction taking place in a quarry immediately behind the array. They are using a 100' crane that when in the upright position does distort our pattern. That may account for some deviation.

Paul Heinlien, who has more familiarity with directionals, reviewed the results of the measurements. Since John Battison is recovering from back surgery and is unavailable for field work, I have asked Mike Peters in Fort Wayne to schedule Paul Phillips to come down with a recently calibrated field intensity meter to check the readings again and provide a report.

We double-checked all operating logs for the last eight weeks and noted no "out of parameter" operation as delineated by our phase monitoring equipment.

We checked the modulation levels on WWHT-FM with a TFT model 744 modulation monitor and a McMartin monitor which just came back from calibration. The levels were checked on June 9th and June 11th and there were no more than 2 peak of 100% noted during a 6 minute period of observation. I readjusted the level so we do not exceed 98% on peaks. Paul Phillips will check the modulation with his equipment when he visits WNRJ's site.

In summary, we are in compliance with respect the technical issues raised by your inquiry.

A handwritten signature in black ink, appearing to read "Mark Litton". The script is cursive and fluid, with the first name "Mark" and last name "Litton" clearly distinguishable.

Mark Litton  
Chief Engineer

EXHIBIT 6

## WNRJ WEEKLY MAINTANENCE LOG

FOR WEEK OF: Jan 4, 1993

	Normal	Remarks
EBS Received	X	
EBS Transmitted	X	
Modulation	X	
Main Carrier	X	
Tower Lights	X	
Phase Monitor	X	

MONITOR POINTS	FCC LIMIT	MEASURED VALUE
1	8.5	8.1
2	2.6	2.5
3	2.9	2.8
4	3.0	3.0
5	5.2	5.1

Mark Sullivan  
CHIEF OPERATOR

1-10-93  
DATE

REMARKS:

## WNRJ WEEKLY MAINTENANCE LOG

FOR WEEK OF: 1-11-93

	<u>Normal</u>	<u>Remarks</u>
EBS Received	X	
EBS Transmitted	X	
Modulation	X	
Main Carrier	X	
Tower Lights	X	
Phase Monitor	X	

<u>MONITOR POINTS</u>	<u>FCC LIMIT</u>	<u>MEASURED VALUE</u>
1	8.5	8.1
2	2.6	2.3
3	2.9	2.8
4	3.0	3.0
5	5.2	5.0

Mark Sutton  
CHIEF OPERATOR

1-17-93  
DATE

## REMARKS:

Balanced Modulators

## WNRJ WEEKLY MAINTANENCE LOG

FOR WEEK OF: 1-19-93

	<u>Normal</u>	<u>Remarks</u>
EBS Received	X	
EBS Transmitted	X	
Modulation	X	
Main Carrier	X	
Tower Lights	X	
Phase Monitor	X	

<u>MONITOR POINTS</u>	<u>FCC LIMIT</u>	<u>MEASURED VALUE</u>
1	8.5	8.3
2	2.6	2.5
3	2.9	2.8
4	3.0	3.0
5	5.2	5.1

Mark Sutton  
CHIEF OPERATOR

5-24-93  
DATE

REMARKS:

## WNRJ WEEKLY MAINTANENCE LOG

FOR WEEK OF: 1-26-93

	<u>Normal</u>	<u>Remarks</u>
EBS Received	X	
EBS Transmitted	X	
Modulation	X	
Main Carrier	X	
Tower Lights	X	
Phase Monitor	X	

<u>MONITOR POINTS</u>	<u>FCC LIMIT</u>	<u>MEASURED VALUE</u>
1	8.5	8.3
2	2.6	2.5
3	2.9	2.8
4	3.0	3.0
5	5.2	5.1

Mark Litch  
CHIEF OPERATOR

1-31-93  
DATE

## REMARKS:

Cleaned Filters

## WNRJ WEEKLY MAINTENANCE LOG

FOR WEEK OF: 2-1-93

	<u>Normal</u>	<u>Remarks</u>
EBS Received	X	
EBS Transmitted	X	
Modulation	X	
Main Carrier	X	
Tower Lights	X	
Phase Monitor	X	

<u>MONITOR POINTS</u>	<u>FCC LIMIT</u>	<u>MEASURED VALUE</u>
1	8.5	8.4
2	2.6	2.5
3	2.9	2.9
4	3.0	3.0
5	5.2	5.1

Mark Litten  
CHIEF OPERATOR

2-7-93  
DATE

REMARKS:



## WNRJ WEEKLY MAINTANENCE LOG

FOR WEEK OF: 2-8-93

	Normal	Remarks
EBS Received	X	
EBS Transmitted	X	
Modulation	X	
Main Carrier	X	
Tower Lights	X	
Phase Monitor	X	

MONITOR POINTS	FCC LIMIT	MEASURED VALUE
1	8.5	8.4
2	2.6	2.5
3	2.9	2.8
4	3.0	3.0
5	5.2	5.2

Mark Allen  
CHIEF OPERATOR

2-14-93  
DATE

REMARKS:

## WNRJ WEEKLY MAINTANENCE LOG

FOR WEEK OF: 2-15-93

	<u>Normal</u>	<u>Remarks</u>
EBS Received	X	
EBS Transmitted	X	
Modulation	X	
Main Carrier	X	
Tower Lights	X	
Phase Monitor	X	

<u>MONITOR POINTS</u>	<u>FCC LIMIT</u>	<u>MEASURED VALUE</u>
1	8.5	8.5
2	2.6	2.6
3	2.9	2.8
4	3.0	3.0
5	5.2	5.1

Maintenance

## WMRJ WEEKLY MAINTANENCE LOG

FOR WEEK OF: 2-22-93

	Normal	Remarks
EBS Received	X	
EBS Transmitted	X	
Modulation	X	
Main Carrier	X	
Tower Lights	X	
Phase Monitor	X	

MONITOR POINTS	FCC LIMIT	MEASURED VALUE
1	8.5	8.4
2	2.6	2.6
3	2.9	2.9
4	3.0	3.0
5	3.2	5.2

Mark Litten  
CHIEF OPERATOR

2-22-93  
DATE

## REMARKS:

Replaced (4) 833's &  
Retuned, Balanced Modulators.

## NNRJ WEEKLY MAINTANENCE LOG

FOR WEEK OF: 3-1-93

	Normal	Remarks
EBS Received	X	
EBS Transmitted	X	
Modulation	X	
Main Carrier	X	
Tower Lights	X	
Phase Monitor	X	

MONITOR POINTS	FCC LIMIT	MEASURED VALUE
1	8.5	8.4
2	2.6	2.6
3	2.9	2.9
4	3.0	3.0
5	5.2	5.1

Mark Sutton  
CHIEF OPERATOR

3-7-93  
DATE

REMARKS:

## WNRJ WEEKLY MAINTANENCE LOG

FOR WEEK OF: 3-8-93

	Normal	Remarks
EBS Received	X	
EBS Transmitted	X	
Modulation	X	
Main Carrier	X	
Tower Lights	X	
Phase Monitor	X	

MONITOR POINTS	FCC LIMIT	MEASURED VALUE
1	8.5	8.5
2	2.6	2.5
3	2.9	2.9
4	3.0	3.0
5	5.2	5.2

Mark Lutton  
CHIEF OPERATOR

3-14-93  
DATE

## REMARKS:

Balanced Modulators,  
Reduced Filament Voltage

## WNRJ WEEKLY MAINTANENCE LOG

FOR WEEK OF: 3-15-93

	<u>Normal</u>	<u>Remarks</u>
EBS Received	X	
EBS Transmitted	X	
Modulation	X	
Main Carrier	X	
Tower Lights	X	
Phase Monitor	X	

<u>MONITOR POINTS</u>	<u>FCC LIMIT</u>	<u>MEASURED VALUE</u>
1	8.5	8.5
2	2.6	2.6
3	2.9	2.9
4	3.0	2.9
5	5.2	5.1

2:22

## WNRJ WEEKLY MAINTANENCE LOG

FOR WEEK OF: 3-22-93

	Normal	Remarks
EBS Received	X	
EBS Transmitted	X	
Modulation	X	
Main Carrier	X	
Tower Lights	X	
Phase Monitor	X	

MONITOR POINTS	FCC LIMIT	MEASURED VALUE
1	8.5	8.4
2	2.6	2.6
3	2.9	2.9
4	3.0	2.9
5	5.2	5.1

Mark Pittman  
CHIEF OPERATOR

3-28-93  
DATE

REMARKS:

## WNRJ WEEKLY MAINTANENCE LOG

FOR WEEK OF: 3-29-93

	Normal	Remarks
EBS Received	X	
EBS Transmitted	X	
Modulation	X	
Main Carrier	X	
Tower Lights	X	
Phase Monitor	X	

MONITOR POINTS	FCC LIMIT	MEASURED VALUE
1	8.5	8.4
2	2.6	2.6
3	2.9	2.9
4	3.0	3.0
5	5.2	5.1

Mark Pittman  
CHIEF OPERATOR

4-4-93  
DATE

REMARKS:



## WNRJ WEEKLY MAINTANENCE LOG

FOR WEEK OF: 4-8-93

	<u>Normal</u>	<u>Remarks</u>
EBS Received	X	
EBS Transmitted	X	
Modulation	X	
Main Carrier	X	
Tower Lights	X	
Phase Monitor	X	

<u>MONITOR POINTS</u>	<u>FCC LIMIT</u>	<u>MEASURED VALUE</u>
1	8.5	8.5
2	2.6	2.6
3	2.9	2.9
4	3.0	3.0
5	5.2	5.2

Mark Litten  
CHIEF OPERATOR

4-11-93  
DATE

REMARKS:

## WNRJ WEEKLY MAINTANENCE LOG

FOR WEEK OF:

4-12-93

	Normal	Remarks
EBS Received	X	
EBS Transmitted	X	
Modulation	X	
Main Carrier	X	
Tower Lights	X	
Phase Monitor	X	

MONITOR POINTS	FCC LIMIT	MEASURED VALUE
1	8.5	8.4
2	2.6	2.5
3	2.9	2.8
4	3.0	2.9
5	5.2	5.1

Mark Sutton  
CHIEF OPERATOR

4-18-93  
DATE

REMARKS:

## WNRJ WEEKLY MAINTANENCE LOG

FOR WEEK OF: 4-19-93

	Normal	Remarks
EBS Received	X	
EBS Transmitted	X	
Modulation	X	
Main Carrier	X	
Tower Lights	X	
Phase Monitor	X	

MONITOR POINTS	FCC LIMIT	MEASURED VALUE
1	8.5	8.3
2	2.6	2.3
3	2.9	2.5
4	3.0	2.8
5	5.2	5.0

Mark Fulton  
CHIEF OPERATOR

4-25-93  
DATE

REMARKS: 807's weak need TO Replace.

## NNRJ WEEKLY MAINTANENCE LOG

FOR WEEK OF: 4-26-93

	<u>Normal</u>	<u>Remarks</u>
EBS Received	X	
EBS Transmitted	X	
Modulation	X	
Main Carrier	X	
Tower Lights	X	
Phase Monitor	X	

<u>MONITOR POINTS</u>	<u>FCC LIMIT</u>	<u>MEASURED VALUE</u>
1	8.5	8.5
2	2.6	2.6
3	2.9	2.8
4	3.0	3.0
5	5.2	5.0

"wet"

Mark Litchy  
CHIEF OPERATOR

5-2-93  
DATE

## REMARKS:

Replaced 807 & Retuned  
Balanced Modulators

## WNRJ WEEKLY MAINTANENCE LOG

FOR WEEK OF:

5-3-93

	Normal	Remarks
EBS Received	X	
EBS Transmitted	X	
Modulation	X	
Main Carrier	X	
Tower Lights	X	
Phase Monitor	X	

MONITOR POINTS	FCC LIMIT	MEASURED VALUE
1	8.5	8.4
2	2.6	2.6
3	2.9	2.9
4	3.0	3.0
5	5.2	5.2

Mark Linton  
CHIEF OPERATOR

5-9-93  
DATE

REMARKS:

## WNRJ WEEKLY MAINTANENCE LOG

FOR WEEK OF: 5-10-93

	<u>Normal</u>	<u>Remarks</u>
EBS Received	X	
EBS Transmitted	X	
Modulation	X	
Main Carrier	X	
Tower Lights	X	
Phase Monitor	X	

<u>MONITOR POINTS</u>	<u>FCC LIMIT</u>	<u>MEASURED VALUE</u>
1	8.5	8.4
2	2.6	2.6
3	2.9	2.9
4	3.0	3.0
5	5.2	5.2

Mark Sutton  
CHIEF OPERATOR

5-16-93  
DATE

REMARKS:

## WNRJ WEEKLY MAINTANENCE LOG

FOR WEEK OF: 5-17-93

	<u>Normal</u>	<u>Remarks</u>
EBS Received	X	
EBS Transmitted	X	
Modulation	X	
Main Carrier	X	
Tower Lights	X	
Phase Monitor	X	

<u>MONITOR POINTS</u>	<u>FCC LIMIT</u>	<u>MEASURED VALUE</u>
1	8.5	8.4
2	2.6	2.5
3	2.9	2.8
4	3.0	2.9
5	5.2	5.1

Mark Letten  
CHIEF OPERATOR

5-23-93  
DATE

REMARKS:

## WHRJ WEEKLY MAINTANENCE LOG

FOR WEEK OF: 5-24-93

	<u>Normal</u>	<u>Remarks</u>
EBS Received	X	
EBS Transmitted	X	
Modulation	X	
Main Carrier	X	
Tower Lights	X	
Phase Monitor	X	

<u>MONITOR POINTS</u>	<u>FCC LIMIT</u>	<u>MEASURED VALUE</u>
1	8.5	8.5
2	2.6	2.6
3	2.9	2.8
4	3.0	3.0
5	5.2	5.2

Mark Sutton  
CHIEF OPERATOR

5-30-93  
DATE

## REMARKS:

Changed Air filters &  
Balanced Modulators



JUL- 6-93 TUE 13:52

WWHT/WTLT

FAX NO. 6148467385

P.23

WNRJ WEEKLY MAINTANENCE LOG

FOR WEEK OF: 5-31-93

FAC Received

Normal	Remarks
V	